

***REDACTED VERSION OF DOCUMENT SOUGHT TO BE SEALED***

# EXHIBIT A

**REDACTED VERSION OF DOCUMENT SOUGHT TO BE SEALED****Summary of Relevant Patents Markets**

<b>Patent</b>	<b>Fortress PAE</b>	<b>Prior Owner(s)</b>	<b>Role</b>	<b>Issue Date</b>	<b>Transfer to Current Fortress PAE</b>	<b>Pre-Aggregation Market Data</b>	<b>Asserted Against Apple/Intel</b>	<b>Post-Aggregation Demand</b>
<b>(1) Network-based Voice Messaging</b>								
7,020,252	Uniloc 2017	Koninklijke Philips Elecs. N.V. (3/28/2006-1/30/2009)  IPG Elecs. (1/30/2009-4/10/2012)  Pendragon Wireless (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Substitute	3/28/2006	5/3/2018	Fortress paid <b>\$33.6M</b> in March 2018 for the entire Uniloc Luxembourg portfolio including this patent (hereinafter “\$33.6M”).  Uniloc 2017 refused permission to provide information on purchase price.	Yes	<b>\$489.6M</b> damages demand
7,535,890	Uniloc 2017	Ayalogic, Inc. (5/19/2009-7/16/2013)  Empire IP (7/16/2013-6/10/2016)  Uniloc Luxembourg (6/10/2016-5/3/2018)	Substitute	5/19/2009	5/3/2018	Included in June 2017 valuation of Uniloc Luxembourg assets at <b>\$6.25M</b> (hereinafter “\$6.25M”); <b>\$33.6M</b>	Yes	--
8,243,723	Uniloc 2017	Ayalogic, Inc. (5/19/2009-7/16/2013)  Empire IP (7/16/2013-6/10/2016)  Uniloc Luxembourg (6/10/2016-5/3/2018)	Substitute	8/14/2012	5/3/2018	<b>\$6.25M; \$33.6M</b>	Yes	--

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
8,724,622	Uniloc 2017	Ayalogic, Inc. (5/19/2009-7/16/2013)  Empire IP (7/16/2013-6/10/2016)  Uniloc Luxembourg (6/10/2016-5/3/2018)	Substitute	5/13/2014	5/23/2018	<b>\$6.25M;\$33.6M</b>	Yes	--
8,995,433	Uniloc 2017	Ayalogic, Inc. (5/19/2009-7/16/2013)  Empire IP (7/16/2013-6/10/2016)  Uniloc Luxembourg (6/10/2016-5/3/2018)	Substitute	3/31/2015	5/3/2018	<b>\$6.25M; \$33.6M</b>	Yes	--
8,838,744	Seven Networks	N/A	Complement	9/16/2014	--	--	No	--
7,920,579	INVT	Huawei (4/5/2011-5/15/2013)  Inventergy (5/15/2013-4/27/2017)	Complement	4/5/2011	4/27/2017	Inventergy acquired the '579 patent as one of 740 patents for <b>\$30M</b> . After acquiring the patent, Inventergy's market capitalization was <b>\$15M</b> (hereinafter "\$30M; \$15M")	No	--
<b>(2) Remote Software Updates</b>								
8,239,852	Uniloc 2017	Uniloc Luxembourg (8/7/2012-5/3/2018)	Substitute	8/7/2012	5/3/2018	<b>\$6.25M; \$33.6M</b>	Yes	<b>\$757M - \$1.48B</b> damages demand
6,467,088	Uniloc 2017	Koninklijke Philips Elecs. N.V. (10/15/2002-1/30/2009)	Substitute	10/15/2002	5/31/2018	<b>\$33.6M</b>	Yes	--

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
		IPG Elecs. 503 (1/30/2009-4/10/2012)  Pendragon Wireless (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)						
6,110,228	Uniloc 2017	International Business Machines Corp. (8/29/2000-2/17/2017)  Uniloc Luxembourg (2/17/2017-5/3/2018)	Substitute	8/29/2000	5/31/2018	\$33.6M	No	N/A
8,078,158	Seven Networks	N/A	Substitute	12/23/2011	N/A	N/A	No	N/A
<b>(3) Mobile Device-to-Device Communication Through Network-Coupled Intermediary Device</b>								
6,446,127	Uniloc 2017	3Com Corporation (9/3/2002-4/28/2010)  Hewlett-Packard (4/28/2010-10/10/2011)  Hewlett Packard Dev. (10/10/2011-10/27/2015)  Hewlett Packard Enter. Dev. (10/27/2015-5/16/2017)  Uniloc Luxembourg (5/16/2017-5/3/2018)	Substitute	9/3/2002	5/3/2018	\$6.25M; \$33.6M	Yes	--

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
6,161,134	Uniloc 2017	3Com Corporation (12/12/2000-4/28/2010)  Hewlett-Packard (4/28/2010-10/10/2011)  Hewlett Packard Dev. (10/10/2011-10/27/2015)  Hewlett Packard Enter. Dev. (10/27/2015-5/16/2017)  Uniloc Luxembourg (5/16/2017-5/3/2018)	Substitute	12/12/2000	5/3/2018	<b>\$6.25M; \$33.6M</b>	Yes	--
7,299,008	IXI IP	IXI Mobile, Ltd (later IXI R&D) (11/20/2007-6/5/2014)	Substitute	11/20/2007	6/5/2014	N/A	No	N/A
6,845,097	IXI IP	IXI R&D (12/18/2005-6/5/2014)	Substitute	12/18/2005	6/5/2014	N/A	No	N/A
7,551,593	IXI IP	IXI R&D (6/23/2009-6/5/2014)	Substitute	6/23/2009	6/5/2014	N/A	No	N/A
9,712,986	Seven Networks	N/A	Substitute	7/18/2017	N/A	N/A	Yes	--
7,136,999	Uniloc 2017	Koninklijke Philips Elecs. N.V. (11/14/2006-1/30/2009)  IPG Elecs. (1/30/2009-4/10/2012)  Pendragon Wireless (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Complement	11/14/2006	5/3/2018	<b>\$33.6M</b>	Yes	<b>\$162M damages demand</b>

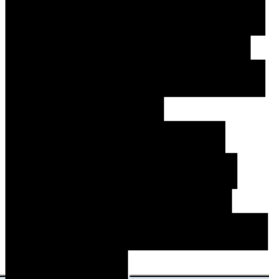
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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
8,018,877	Uniloc 2017	Daniel Lin (9/13/2011-4/27/2012)  Pendragon Wireless (4/27/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Complement	9/13/2011	5/3/2018	\$33.6M	Yes	--
9,769,176	Seven Networks	Seven Networks (9/19/2017)	Complement	9/19/2017	N/A	N/A	Yes	damages demand
<b>(4) Preventing Stalls for Cache Misses</b>								
6,058,437	Uniloc 2017	Elecs. & Telecomms. Research Institute (5/5/2000-4/10/2012)  IPG Elecs. 502 (12/26/2008-4/10/2012)  Pendragon Elecs. and Telecomms. Research (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Substitute	5/2/2000	5/3/2018	\$33.6M	No	N/A
7,434,009	VLSI	Freescall (10/7/2008-11/7/2016)  NXP USA Inc. (11/7/2016-2/1/2019)	Substitute	10/7/2008	2/1/2019	No	No	N/A

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
6,301,641	Uniloc 2017	Koninklijke Philips Elecs. N.V. (11/14/2006-1/30/2009) IPG Elecs. (1/30/2009-4/10/2012) Pendragon Wireless LLC (4/10/2012-1/31/2018) Uniloc Luxembourg (1/31/2018-5/3/2018)	Complement	10/9/2001	5/3/2018	\$33.6M	No	N/A
8,219,761	VLSI	Freescall (7/10/2012-11/7/2016) NXP USA Inc. (11/7/2016-2/1/2019)	Complement	7/10/2012	2/1/2019	No	No	N/A
7,523,331	VLSI	NXP B.V. (4/21/2009-12/15/2013) Breakwaters Innovations LLC (12/15/2013-3/3/2015) NXP B.V. (3/3/2015-8/16/2016)	Complement	4/21/2009	8/16/2016	[REDACTED]	Yes	[REDACTED] damages demand
8,020,014	VLSI	Freescall (9/13/2011-8/16/2016)	Complement	9/13/2011	8/16/2016	[REDACTED] SoftBank acquired Fortress for \$3.3B in	Yes	\$7.1B damages demand for alleged infringement of eight patents, including the '014 patent  VLSI refused permission to disclose its exact damages demand

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
						2017, after VLSI acquired the '331 patent		
8,156,357	VLSI	Freescall (4/10/2012-11/7/2016) NXP (11/7/2016-12/22/2018)	Complement	4/10/2012	12/22/2018	VLSI refused permission to disclose purchase information 	Yes	<b>\$11B</b> damages demand for eight patents, including the '357 patent  VLSI refused permission to disclose its exact damages demand
<b>(5) Arbitrating Multiple Requests to Access a Memory Bus</b>								
5,659,687	Uniloc 2017	Elecs. & Telecomms. Research Institute (8/19/1997-4/10/2012) IPG Elecs. 502 Limited (12/26/2008-4/10/2012) Pendragon Elecs. and Telecomms. Research LLC (4/10/2012-10/31/2012) Phoenicia Innovations LLC (10/31/2012-1/31/2018) Uniloc Luxembourg (1/31/2018-5/3/2018)	Substitute	8/19/1997	5/5/2018	<b>\$33.6M</b>	No	N/A



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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
7,606,983	VLSI	NXP B.V. (10/20/2009-2/1/2019)	Substitute	10/20/2009	2/1/2019	VLSI refused permission to disclose purchase information	Yes	<b>\$11B</b> damages demand for eight patents, including the '983 patent
7,023,850	Uniloc 2017	Elecs. & Telecomms. Research Institute (4/4/2006-4/10/2012) IPG Elecs. 502 Limited (12/26/2008-4/10/2012) Pendragon Elecs. and Telecomms. Research (4/10/2012-1/31/2018) Uniloc Luxembourg (1/31/2018-5/3/2018)	Complement	4/4/2006	1/31/2018	<b>\$33.6M</b>	No	N/A
<b>(6) Third-party Device Authorization Through Limitation of Information Exchanged</b>								
7,900,242	INVT	Nokia Corporation (3/1/2011-6/9/2014)	Substitute	3/1/2011	6/9/2014	<b>\$30M; \$15M</b>	No	N/A
7,917,620	INVT	Nokia Corporation (3/29/2011-6/9/2014)	Substitute	3/29/2011	6/9/2014	<b>\$30M; \$15M</b>	No	N/A
9,094,395	Seven Networks	N/A	Substitute	7/28/2015	N/A	N/A	No	N/A

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
6,212,633	VLSI	VLSI Technology, Inc. (later Philips Semiconductors VLSI Inc.) (4/3/2001-9/28/2006)  Philips Semiconductors International B.V. (later NXP B.V.) (9/28/2006-12/4/2017)	Substitute	4/3/2001	12/4/2017		Yes	Damages demand of “billions” for alleged infringement of the '633 patent and four additional patents
8,838,976	Uniloc 2017	Uniloc Luxembourg NetAuthority (1/2/2013-7/23/2013)  Uniloc Luxembourg (7/23/2013-5/3/2018)	Substitute	9/16/2014	5/3/2018	\$6.25M; \$33.6M	Yes	--
8,213,907	Uniloc 2017	Uniloc Luxembourg (7/3/2012-1/2/2013)  NetAuthority (1/2/2013-8/27/2013)  Uniloc Luxembourg (8/27/2013-5/3/2018)	Substitute	7/3/2012	5/3/2018	\$6.25M; \$33.6M	No	N/A
6,856,616	Uniloc 2017	3Com Corporation (9/3/2002-4/28/2010)  Hewlett-Packard Co. (4/28/2010-10/10/2011)  Hewlett Packard Dev. Co. (10/10/2011-10/27/2015)  Hewlett Packard Enter. Dev. (10/27/2015-5/16/2017)	Substitute	2/15/2005	5/3/2018	\$6.25M; \$33.6M	Yes	Uniloc refused permission to disclose its damages demand

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<b>Patent</b>	<b>Fortress PAE</b>	<b>Prior Owner(s)</b>	<b>Role</b>	<b>Issue Date</b>	<b>Transfer to Current Fortress PAE</b>	<b>Pre-Aggregation Market Data</b>	<b>Asserted Against Apple/Intel</b>	<b>Post-Aggregation Demand</b>
		Uniloc Luxembourg (5/16/2017-5/3/2018)						
8,316,421	Uniloc 2017	Uniloc Luxembourg (11/20/2012-1/2/2013)  NetAuthority (1/2/2013-8/27/2013)  Uniloc Luxembourg (8/27/2013-5/3/2018)	Complement	11/20/2012	5/3/2018	<b>\$6.25M; \$33.6M</b>	No	N/A
7,987,362	Uniloc 2017	Uniloc USA (7/26/2011-5/25/2012)  Uniloc Luxembourg (5/25/2012-1/2/2013)  NetAuthority (1/2/2013-7/23/2013)  Uniloc Luxembourg (7/23/2013-5/3/2018)	Complement	7/26/2011	5/3/2018	<b>\$6.25M; \$33.6M</b>	No	N/A
9,286,466	Uniloc 2017	Uniloc Luxembourg (3/15/2016-5/3/2018)	Complement	3/15/2016	5/3/2018	<b>\$6.25M; \$33.6M</b>	No	N/A
7,934,250	Uniloc 2017	Uniloc USA (4/26/2011-5/25/2012)  Uniloc Luxembourg (5/25/2012-1/2/2013)	Complement	4/26/2011	5/3/2018	<b>\$6.25M; \$33.6M</b>	No	N/A

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
		NetAuthority (1/2/2013-7/23/2013)  Uniloc Luxembourg (7/23/2013-5/3/2018)						
9,578,502	Uniloc 2017	Uniloc Luxembourg (2/21/2017-5/3/2018)	Complement	2/21/2017	5/3/2018	\$6.25M; \$33.6M	No	N/A
8,695,068	Uniloc 2017	Uniloc Luxembourg (4/8/2014-5/3/2018)	Complement	4/8/2014	5/3/2018	\$6.25M; \$33.6M	No	N/A
9,143,496	Uniloc 2017	Uniloc Luxembourg (9/22/2015-5/3/2018)	Complement	9/22/2015	5/3/2018	\$6.25M; \$33.6M	No	N/A
8,881,280	Uniloc 2017	Uniloc Luxembourg (11/4/2014-5/3/2018)	Complement	11/4/2014	5/3/2018	\$6.25M; \$33.6M	No	N/A
7,039,033	IXI	IXI Mobile (Israel) Ltd. (later IXI R&D) (11/13/2007-5/5/2014)  IXI IP (6/5/2014-6/5/2014)	Complement	5/2/2006	6/5/2014	IXI refused permission to disclose purchase information	Yes	IXI refused permission to disclose its damages demand
7,295,532	IXI	IXI R&D (11/13/2007-5/5/2014)  IXI IP (6/5/2014-6/5/2014)	Complement	11/13/2007	6/5/2014	IXI refused permission to disclose purchase information	Yes	IXI refused permission to disclose its damages demand

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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
<b>(7) Generating Alerts Based on Blood Oxygen Level</b>								
7,220,220	Uniloc 2017	Kevin Schwieger & Jack Stubbs (5/22/2007-6/9/2017)  Paragon Solutions LLC (6/9/2017-7/28/2017)  Red Dragon Innovations (7/28/2017-8/10/2017)  Uniloc Luxembourg (8/10/2017-5/3/2018)	Substitute	5/22/2007	5/3/2018	<b>\$33.6M</b>	No	N/A
6,736,759	Uniloc 2017	Paragon Solutions (5/18/2004-7/28/2017)  Red Dragon Innovations (7/28/2017-8/10/2017)  Uniloc Luxembourg (8/10/2017-5/3/2018)	Substitute	5/18/2004	5/3/2018	<b>\$33.6M</b>	Yes	--
6,215,403	Uniloc 2017	International Business Machines Corporation (4/10/2001-9/26/2007)  IPG Healthcare 501 Limited (9/26/2007-4/10/2012)  Pengdragon Networks (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Substitute	4/10/2001	5/3/2018	<b>\$33.6M</b>	No	N/A

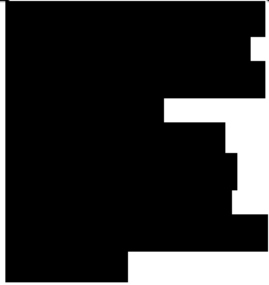
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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
7,653,508	Uniloc 2017	DP Technologies, Inc. (1/26/2010-5/17/2017)  Uniloc Luxembourg (5/17/2017-5/3/2018)	Complement	1/26/2010	5/3/2018	\$6.25M; \$33.6M	Yes	\$375M - \$731M damages demand
7,690,556	Uniloc 2017	DP Technologies, Inc. (4/6/2010-5/17/2017)  Uniloc Luxembourg (5/17/2017-5/3/2018)	Complement	4/6/2010	5/3/2018	\$6.25M; \$33.6M	Yes	\$375M - \$731M damages demand
7,881,902	Uniloc 2017	DP Technologies, Inc. (2/1/2011-5/17/2017)  Uniloc Luxembourg (5/17/2017-5/3/2018)	Complement	2/1/2011	5/3/2018	\$6.25M; \$33.6M	Yes	\$375M - \$731M damages demand
8,712,723	Uniloc 2017	DP Technologies, Inc. (4/29/2014-5/17/2017)  Uniloc Luxembourg (5/17/2017-5/3/2018)	Complement	4/29/2014	5/3/2018	\$6.25M; \$33.6M	Yes	\$375M - \$731M damages demand
8,872,646	Uniloc 2017	DP Technologies, Inc. (10/28/2014-5/17/2017)  Uniloc Luxembourg (5/17/2017-5/3/2018)	Complement	10/28/2014	5/3/2018	\$6.25M; \$33.6M	Yes	\$167M - \$326M damages demand
<b>(8) MOSFET Channel Fabrication</b>								
6,995,452	Uniloc 2017	Elecs. & Telecomms. Research Institute (2/7/2006-4/10/2012)  IPG Elecs. 502 Limited (12/26/2008-4/10/2012)	Substitute	2/7/2006	5/31/2018	\$33.6M	No	N/A

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		Pendragon Elecs. and Telecomms. Research LLC (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)						
6,541,319	Uniloc 2017	Elecs. & Telecomms. Research Institute (4/1/2003-4/10/2012)  IPG Elecs. 502 Limited (12/26/2008-4/10/2012)  Pendragon Elecs. and Telecomms. Research LLC (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Substitute	4/1/2003	5/31/2018	\$33.6M	No	N/A
6,087,232	Uniloc 2017	Elecs. & Telecomms. Research Institute (7/11/2000-4/10/2012)  IPG Elecs. 502 Limited (12/26/2008-4/10/2012)  Pendragon Elecs. and Telecomms. Research LLC (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Substitute	7/11/2000	5/31/2018	\$33.6M	No	N/A

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7,183,149	Uniloc 2017	Elecs. & Telecomms. Research Institute (2/27/2007-4/10/2012)  IPG Elecs. 502 Limited (12/26/2008-4/10/2012)  Pendragon Elecs. and Telecomms. Research LLC (4/10/2012-1/31/2018)  Uniloc Luxembourg (1/31/2018-5/3/2018)	Substitute	2/27/2007	5/31/2018	\$33.6M	No	N/A
7,709,303	VLSI	Freescall (5/3/2010-08/16/2016)	Substitute	5/4/2010	8/16/2016	  SoftBank acquired Fortress for \$3.3B in 2017, after VLSI acquired the '303 patent	Yes	\$7.1B damages demand for alleged infringement of eight patents, including the '303 patent  VLSI refused permission to disclose its exact damages demand

**(9) Remote Enabling and Disabling of Software Components**

Prior to Fortress gaining control over Uniloc Luxembourg and Uniloc USA, they aggregated a number of substitute patents:

- U.S. Patent No. 5,579,222
- U.S. Patent No. 5,490,216
- U.S. Patent No. 9,633,183
- U.S. Patent No. 7,197,144
- U.S. Patent No. 8,769,296



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Patent	Fortress PAE	Prior Owner(s)	Role	Issue Date	Transfer to Current Fortress PAE	Pre-Aggregation Market Data	Asserted Against Apple/Intel	Post-Aggregation Demand
<ul style="list-style-type: none"> <li>U.S. Patent No. 6,857,067</li> </ul>								
6,446,069	Uniloc 2017	International Business Machine Co. (9/3/2002-9/27/2017)  Uniloc Luxembourg (9/27/2017-5/3/2018)	Substitute	9/3/2002	9/27/2017	<b>\$33.6M</b>	No	N/A
7,016,648	IXI IP	IXI Mobile (Israel) Ltd. (later IXI R&D) (3/21/2006-5/5/2014)  IXI IP (6/5/2014-6/5/2014)	Complement	3/21/2006	6/5/2014	No	Yes	--